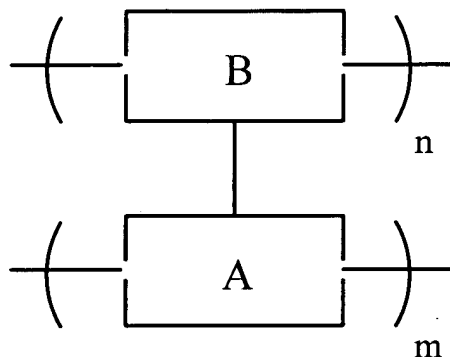


## SUBSTITUTE SPECIFICATION

### CLAIMS

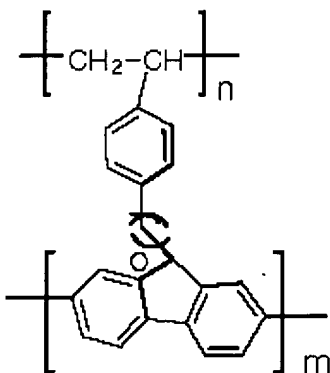
We claim:

1. A blue light-emitting polymer with ladder-type structure represented by the following formula:



wherein A is selected from polyfluorene, polythiophene, polypyrrole, polycarbazole, polyphenylene, polyaniline, polypyridine; B is selected from polystyrene, polypyrrol, polycarbonate, polythiophene, polyphenylene, polyaniline, polypyridine, polycarbazole; n is an integer of 5 to 100; and m is an integer of 2 to 100.

2. The blue light-emitting polymers to claim 1, wherein A is polyfluorene with the following formula and B is polystyrene:

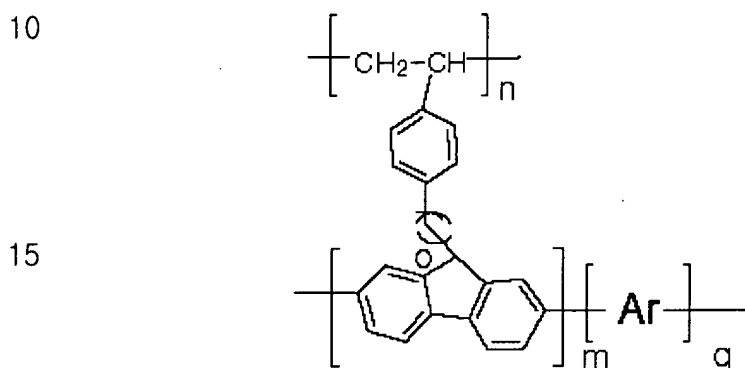




## SUBSTITUTE SPECIFICATION

wherein n is an integer of 5 to 100; and m is an integer of 2 to 100.

- 5            3. The blue light-emitting polymers to claim 2, wherein Ar is aromatic compounds such as fluorene, fluorene derivatives, benzene, benzene derivatives, thiophene, thiophene derivatives, carbazole, carbazole derivatives, pyridine or pyridine derivatives:



- 20            wherein n is an integer of 5 to 100; m is an integer of 2 to 100; and q is an integer of 2 to 100.

4. The blue light-emitting polymers to claim 2 or 3, wherein B is the polystyrene specifically with atactic or syndiotactic structure:

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